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In The Claims:

Claims 1-74 (canceled)

- 5 75. (currently amended) A multi-chip structure comprising:
 - a first chip comprising a pad comprising a copper layer and a nickel layer over said copper layer;
 - a second chip; and
 - a tin-containing material connecting said pad to said second chip.

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Claims 76-77 (canceled)

78. (currently amended) The structure of Claim 75, wherein said pad further comprises a gold layer over said nickel layer.

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- 79. (currently amended) The structure of Claim 75, wherein said tin-containing bump further comprises copper.
- 80. (currently amended) The structure of Claim 75 further comprising a wire wirebonded to said first chip.
 - 81. (previously presented) The structure of Claim 75, wherein said tin-containing material further comprises lead.
- 25 82. (previously presented) The structure of Claim 75, wherein said tin-containing material further comprises silver.
 - 83. (currently amended) A multi-chip structure, comprising:

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a first chip comprising:

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a semiconductor substrate comprising multiple MOS devices,

- a metallization structure over said semiconductor substrate,
- a passivation layer over said metallization structure, an opening in said passivation layer exposing a top surface of a first pad of said metallization structure, and

a second pad connected to said top surface of said first pad, wherein said second pad comprising a copper layer and a nickel layer over said copper layer; a second chip over said first chip; and

a tin-containing material connecting said second pad to said second chip.

Claims 84-85 (canceled)

- 86. (currently amended) The structure of Claim 83, wherein said second pad further comprises a gold layer over said nickel layer.
 - 87. (currently amended) The structure of Claim 83, wherein said tin-containing material further comprises copper.
- 88. (currently amended) The structure of Claim 83, wherein said second pad further comprises a gold layer under said copper layer, wherein said gold layer has a thickness of greater than 1 micron.
- 89. (previously presented) The structure of Claim 83, wherein said second pad comprises an electroplated metal.

Claims 90 (canceled)

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- 91. (currently amended) The structure of Claim 83 further comprising a wire wirebonded to said first chip.
- 92. (previously presented) The structure of Claim 83, wherein said tin-containing5 material further comprises lead.
 - 93. (previously presented) The structure of Claim 83, wherein said tin-containing material further comprises silver.
- 10 94. (currently amended) A multi-chip structure, comprising:
 - a first chip comprising:

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- a semiconductor substrate comprising multiple MOS devices,
 - a metallization structure over said semiconductor substrate,
- a passivation layer over said metallization structure, an opening in said passivation layer exposing a first pad of said metallization structure,
 - a trace over said passivation layer, and
- a second pad connected to said first pad through said trace, wherein said second pad comprises a copper layer and a nickel layer over said copper layer;
- a second chip over said first chip; and
- 20 a tin-containing material connecting said second pad to said second chip.

Claims 95-96 (canceled)

- 97. (currently amended) The structure of Claim 94, wherein said second pad furthercomprises a gold layer over said nickel layer.
 - 98. (currently amended) The structure of Claim 94, wherein said tin-containing material further comprises copper.

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- 99. (currently amended) The structure of Claim 94, wherein said tin-containing material further comprises lead.
- 5 100. (currently amended) The structure of Claim 94, wherein said tin-containing material further comprises silver.
 - 101. (currently amended) The structure of Claim 94 further comprising a wire wirebonded to said first chip.
 - 102. (new) The structure of Claim 75, wherein said tin-containing material covers a top surface and a sidewall of said pad.
- 103. (new) The structure of Claim 83, wherein said tin-containing material covers a top surface and a sidewall of said second pad.
 - 104. (new) The structure of Claim 83, wherein said passivation layer comprises nitride.
- 20 105. (new) The structure of Claim 94, wherein said tin-containing material covers a top surface and a sidewall of said second pad.
 - 106. (new) The structure of Claim 94, wherein said trace comprises a gold layer having a thickness of greater than 1 micron.
 - 107. (new) The structure of Claim 94, wherein said passivation layer comprises nitride.